AMENDMENT TO THE CLAIMS

Claims 1-11 (Cancelled)

12.(New) A spraying device for melt granulation in fluidised bed comprising a nozzle (2) with a feed channel (4) for a liquid to be atomised, where the liquid is led through emulsifying means (6) and into an internal mixing chamber (5) for gas and liquid, before it is fed to the fluidised bed,

wherein the nozzle (2) has a separate channel (7) for the atomising gas fitted concentrically around the central liquid supply channel (4) for the liquid to be atomised or nebulised, and where the mixing chamber (5) surrounds the outlet zone of the liquid spray from the emulsifying means and the gas, allowing efficient mixing of high speed atomisation gas and liquid, and having an external gas cap (1) where fluidisation gas is channelled into a spout above the spraying device.

- 13.(New) A spraying device according to claim 12, wherein the mixing chamber (5) is cylindrical with an upper conical part.
- 14.(New) A spraying device according to claim 13,

wherein the ration between the length (L) and the diameter (D) of the mixing chamber (5) is in the range 0.5 to 5 and the length (l) and diameter (d) of the orifice (9) is in the range 0.1 - 2.

15.(New) A spraying device according to claim 13,

wherein the ration between the length (L) and the diameter (D) of the mixing chamber (5) is in the range 1 to 4 and the length (l) and diameter (d) of the orifice (9) is in the range 0.25 - 1.

- 16.(New) A spraying device according to claim 12, wherein the mixing chamber (5) is conical.
- 17.(New) A spraying device according to claim 12, wherein the gas cap (1) is conical and fitted to a perforated bottom plate (3), concentrically around the nozzle (2).
- 18.(New) A spraying device according to claim 17, wherein the gas cap (1) has a height of 10 to 200 mm above the bottom plate (3), preferably 20 to 100 mm.
- 19.(New) A spraying device according to claim 17, wherein the gas cap (1) has an upper aperture diameter of 20 to 150 mm and a bottom aperture diameter of 30 to 300 mm, preferably 35 to 100 rum and 40 to 200 mm, respectively.
- 20.(New) A method for preparation of solid granules in a fluidised bed, where a liquid material is atomised by supply of an atomising gas and sprayed into the fluidised bed through spray nozzles (2) mounted vertically and where the fluidised bed is maintained by fluidisation gas blown upwards through a perforated plate underneath the bed

wherein a portion of the fluidisation gas its channelled through a gas cap (1) surrounding the nozzle for creation of a gas spout above the spraying device.

21.(New) A method for preparation of solid granules from a liquid material in a fluidised bed by using a nozzle (2) with a feed channel (4), for a liquid to be atomised, where the liquid is led through emulsifying means and into an internal mixing chamber (5) for gas and liquid, before spraying the atomised liquid upwardly into the fluid bed layer,

wherein the atomising gas is led to the mixing chamber (5) in a channel (7) concentrically to the liquid and into the mixing chamber surrounding the outlet openings for both liquid and gas, allowing efficient mixing of high speed atomisation gas and liquid, and where a portion of the

fluidisation gas is channelled through a gas cap (1) surrounding the nozzle (2), thus creating a gas spout above the spraying device.

22.(New) Use of a spraying device according claim 12, in a process for preparation of granules of urea, and other melts suitable for producing fertiliser products, such as calcium ammonium nitrate, ammonium sulphate and mixtures thereof.